## EXHIBIT E

Paper No.	

## UNITED STATES PATENT AND TRADEMARK OFFICE

## BEFORE THE PATENT TRIAL AND APPEAL BOARD

GOOGLE LLC, Petitioner,

v.

SINGULAR COMPUTING LLC, Patent Owner.

Case No. IPR2021-00165 Patent No. 9,218,156

PETITION FOR INTER PARTES REVIEW UNDER 35 U.S.C. §§ 311-319 AND 37 C.F.R. § 42.1 et seq

that saved power by reducing precision in its floating-point operations to whatever precision was needed for a particular application. Dockser, [0003]-[0007]; Goodin, ¶ 35.

The challenged claims encompass this prior-art concept. Claim 1 recites a device comprising an LPHDR execution unit adapted to execute an operation on an input signal representing a first numerical value to produce an output signal representing a second numerical value, and a generic computing device adapted to control operation of the execution unit. Nothing more. The remainder of the claim simply characterizes the execution unit's performance by reciting its minimum dynamic range and degree of imprecision. Goodin, ¶¶ 36, 38.

## II. SUMMARY OF GROUNDS

The challenged claims would have been obvious under § 103 as the following grounds demonstrate. Each reference below (none of which was before the examiner) is prior art under pre-AIA § 102(b) even assuming the challenged claims were entitled to their earliest claimed priority date (they are not as Petitioner's concurrently filed petition demonstrates).

Gı	ound Number and Reference(s)	Claims
1	Dockser (Ex. 1007)	1-2, 16
2	Dockser, Tong (Ex. 1008)	1-2, 16, 33
3	Dockser, MacMillan (Ex. 1009)	1-8, 16
4	Dockser, Tong, MacMillan	1-8, 16, 33

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The Petition's grounds are based on references neither considered during

prosecution nor duplicative of art previously considered. Supra § IV.D.

Thus "the first part of the framework set forth in Advanced Bionics is not

met," and the Board "need not reach" its second prong. TalexMedical, LLC v.

Becon Med., Ltd., IPR2020-00030, Paper 7 at 9-10 (Apr. 17, 2020) (first prong not

met where petition's references were not of record and no rejections or substantive

arguments were made during prosecution).

X. CONCLUSION

The Board should institute review and cancel claims 1-8, 16, and 33.

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Respectfully submitted, *Google LLC* 

By /Elisabeth Hunt/

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